

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

Box No. I

Box No. II

ITALY

ITALY

ITALY

ITALY

Box No. IV

BUGNION S.p.A.

40126 BOLOGNA

Via Goito, 18

ITALY

Rec'd	PCT/I	25	JAN	2005
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For receiving Office use only 0/522302 International Filing Date Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference (if desired) (12 characters maximum) 61.S3502WO17 TITLE OF INVENTION A centrifugal fan impeller with blades inclined relative to the axis of rotation. APPLICANT This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. Facsimile No. SPAL S.r.I. Via per Carpi, 26/B Teleprinter No. 42015 CORREGGIO Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: **ITALY** This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box for the purposes of: Box No. III . FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only PATTI Salvatore applicant and inventor Via Oslavia, 5 inventor only (If this check-box is marked, do not fill in below.) 40133 BOLOGNA Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: ITALY This person is applicant all designated all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf common representative agent of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation. Telephone No. The address must include postal code and name of country.)

Form PCT/RO/101 (first sheet) (March 2001; reprint July 2003)

FUOCHI Riccardo, LANZONI Luciano

See Notes to the request form

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

051 6583311

051 6583400

Agent's registration No. with the Office

Facsimile No.

Teleprinter No.

Sox No. V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line).
- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection	or treatment desired, specify on dotted line):	
AE United Arab Emirates	HR Croatia	. 🖍 OM Oman
AG Antigua and Barbuda	HU Hungary	. X PG Papua New Guinea
🛮 🖾 AL Albania	ID Indonesia	PH Philippines
		. 🔀 PL Poland
AT Austria	IN India	PT Portugal
AU Australia		RO Romania
AZ Azerbaijan		
BA Bosnia and Herzegovina	KE Kenya	
BB Barbados	KG Kyrgyzstan	SC Seychelles
	KP Democratic People's Republic	SD Sudan
BR Brazil		
	KR Republic of Korea	
		SK Slovakia
CA Canada	LC Saint Lucia	SL Sierra Leone
CH & LI Switzerland and Liechtenstein		🛱 SY Syrian Arab Republic
CN China		TJ Tajikistan
	LS Lesotho	TM Turkmenistan
CR Costa Rica		TN Tunisia
CU Cuba		TR Turkey
CZ Czech Republic		TT Trinidad and Tobago
DE Germany		
DK Denmark	MD Republic of Moldova	X TZ United Republic of Tanzania
DM Dominica		LA Ukraine
DZ Algeria	MG Madagascar	☑ UG Uganda
EC Ecuador		
EE Estonia		
ES Spain		☑ UZ Uzbekistan
FI Finland	MWMalawi	
GB United Kingdom		VN Viet Nam
GD Grenada	MZ Mozambique	YU Serbia and Montenegro
GE Georgia		ZA South Africa
GH Ghana		ZM Zambia
M GM Gambia	NZ New Zealand	ZW Zimbabwe
Check-boxes below reserved for designating	States which have become party to the PCT	after issuance of this sheet
	T	arter issuance of this sheet.
		-

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

BEST AVAILABLE COPY

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Box No. VI PRIORITY	CLAIM							
The priority of the following earlier application(s) is hereby claimed:								
Filing date			Where earlier application is:					
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office				
item (1) 2 August 2002 (02.08.02)	BO2002A 000519	ITALY						
item (2)								
item (3)								
item (4)								
item (5)								
Further priority claims	are indicated in the Suppleme	ental Box.						
The receiving Office is required if the earlier application was above as:	ested to prepare and transmit filed with the Office which for	to the International Bureau the purposes of this interna	u a certified copy of the e ational application is the r	earlier application(s) (only receiving Office) identified				
l — —								
* Where the earlier applicati Industrial Property or one M	ion is an ARIPO application, it Tember of the World Trade Or	ndicate at least one country rganization for which that e	party to the Paris Conve	ention for the Protection of led (Rule 4.10(b)(ii)):				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY								
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA / EP								
	arlier search; reference to f		earch has been carried ou	ut by or requested from the				
International Searching Authority): Date (day/month/year) Number Country (or regional Office)								
·								
Box No. VIII DECLARATIONS								
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations								
Box No. VIII (i)	Declaration as to the identity of the inventor :							
Box No. VIII (ii)	No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :							
Box No. VIII (iii)	o. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :							
Box No. VIII (iv)	Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America):							
Box No. VIII (v)	Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:							

Form PCT/RO/101 (third sheet) (July 2002; reprint July 2003)

See Notes to the request form

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Sheet No.			4

Box No. IX CHECK LIST; LANGUAGE OF FILING				
			Number of items	
request (including		ee calculation sheet	: 1	
declaration sheets) : 4	2. 🗶 o	riginal separate power of attorney	: 1	
description (excluding sequence listings and/or	3. 🔲 o	riginal general power of attorney	:	
tables related thereto) : 9	4. 🔲 c	opy of general power of attorney; reference number,		
claims : 2	1	f any:	:	
abstract : 1		tatement explaining lack of signature	:	
drawings : 6 Sub-total number of sheets : 22	it	riority document(s) identified in Box No. VI as tem(s): 1	: 1	
sequence listings :	1	ranslation of international application into language): ENGLISH.		
tables related thereto (for both, actual number of	8. 🗖 se	eparate indications concerning deposited microorganism r other biological material	:	
sheets if filed in paper form, whether or not also filed in computer readable form;	9. 🔲 se (i	equence listings in computer readable form indicate type and number of carriers)		
see (c) below)	(i) [copy submitted for the purposes of international search Rule 13ter only (and not as part of the international app	under lication):	
Total number of sheets : 22 (b) only in computer readable form	(ii)	(only where check-box (b)(i) or (c)(i) is marked in left colu additional copies including, where applicable, the copy purposes of international search under Rule 13ter	mm)	
(Section 801(a)(i)) (i) ☐ sequence listings	(iii) [purposes of international search under Rule 13 <i>ter</i> I together with relevant statement as to the identity of the		
(ii) tables related thereto		copies with the sequence listings mentioned in left colubles in computer readable form related to sequence listing	mn :	
(c) also in computer readable form (Section 801(a)(ii))	(i:	ndicate type and number of carriers)		
(i) ☐ sequence listings (ii) ☐ tables related thereto		copy submitted for the purposes of international search Section 802(b-quater) only (and not as part of the internapplication)	under national	
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(ii)	(only where check-hox (h)(ii) or (c)(ii) is marked in left col	umn)	
contained the	/··· _	additional copies including, where applicable, the copy purposes of international search under Section 802(b-qu	uater) :	
□ sequence listings:	(111)	together with relevant statement as to the identity of the copies with the tables mentioned in left column	copy or :	
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)				
Figure of the drawings which				
should accompany the abstract: 2 international application: ITALIAN				
Box No. X SIGNATURE OF APPLICANT Next to each signature, indicate the name of the person sign	f, AGENT (ning and the ca	OR COMMON REPRESENTATIVE spacity in which the person signs (if such capacity is not obvious from	reading the request).	
	P.	eard fucchi		
	Wa	anyeuch		
(Riccardo FUઇCHI) - Agent				
For receiving Office use only				
Date of actual receipt of the purported international application: Date of actual receipt of the purported international application:				
3. Corrected date of actual receipt due to later but				
timely received papers or drawings completing the purported international application:				
4. Date of timely receipt of the required corrections under PCT Article 11(2):				
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid				
For International Bureau use only				
Date of receipt of the record copy by the International Bureau:				

Form PCT/RO/101 (last sheet) (January 2003; reprint July 2003)

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PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated	d as they appear in the request):
SPAL S.r.I. Via per Carpi, 26/B 42015 CORREGGIO (REGGIO EMILIA) ITALY	PATTI Salvatore Via Oslavia, 5 40133 BOLOGNA ITALY
hereby appoints (appoint) the following person as:	X agent common representative
Name and address (Family name followed by given name; for a legal entity, full	official designation. The address must include postal code and name of country.)
LANZONI Luciano, FUOCHI Riccardo BUGNION S.p.A. Via Goito, 18 40126 BOLOGNA ITALY	
to represent the undersigned before	all the competent International Authorities the International Searching Authority only the International Preliminary Examining Authority only
in connection with the international application identification	ed below:
Title of the invention: A centrifurelative to the axis of ro	gal fan impeller with blades inclined to
Applicant's or agent's file reference: (61.S3502WO17
International application number (if al	ready available):
filed with the following Office International Bureau and to make or receive payments on behalf of the under	u of WIPO - GENEVA as receiving Office signed.
Signature of the applicant(s) (where there are several applicant the capacity in which the person SPAL S.r.l.	is, each of them must sign; next to each signature, indicate the name of the person signing and signs, if such capacity is not obvious from reading the request or this power):
(Alessandro SPAGGIARI) - Sole Director	(Salvatore PATTI)
Date: <u>July 25, 2003</u>	